

## On-Chip Inter-Subsystem Communication

### ABSTRACT OF THE DISCLOSURE

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A data transfer interface includes facilities for a subsystem including the data transfer interface to internally prioritize transactions with other subsystems, using facilities of the data transfer interface. In one embodiment, the subsystem also includes with the transactions bus arbitration priorities to facilitate prioritization and granting of access to an on-chip bus to the contending transactions. In one embodiment, an integrated circuit includes the on-chip bus and a number of the subsystems interacting with each other through transactions across the on-chip bus.

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